

KODAK IMAGELINK Printer 5 Toner Kit

MATERIAL SAFETY DATA SHEET

000007370/F/USA

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK IMAGELINK Printer 5 Toner Kit

Catalog Number(s): 140 8137 - 450 gram(s) Developer
 808 3925 - 2 x 270 gram(s) Toner

Manufacturer/Supplier: EASTMAN KODAK COMPANY, Rochester, New York 14650

For Emergency Health, Safety & Environmental Information, call (585) 722-5151

For other information or to request an MSDS, call (800) 242-2424.

Synonym(s): Developer: KAN 958805; PTN 905358
 Toner: KAN 958806; PTN 745047

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

Developer:

80-90	Ferrite (*)
10-20	Styrene acrylate copolymer (*)
< 1	Carbon black (001333-86-4)
< 1	Organic pigment (*)
< 1	Polyolefin wax (*)

Toner:

85-90	Styrene acrylate copolymer (*)
1-5	Polyolefin wax (*)
1-5	Carbon black (001333-86-4)
1-5	Organic pigment (*)
< 1	Silica (amorphous) (007631-86-9)

* New Jersey Trade Secret:

Styrene acrylate copolymer, Registration No.: 80100185-5000P

Ferrite, Registration No.: 80100185-5004P, 800185-5005P, 80100185-5006P,
80100185-5007P, 80100185-5008-P
Organic pigment, Registration No.: 80100185-5001P, 800185-5002P,
80100185-5003P

3. HAZARDS IDENTIFICATION

LOW HAZARD FOR RECOMMENDED HANDLING

Developer:

HMIS Hazard Ratings:

Health - 1, Flammability - 1, Reactivity - 0, Personal Protection - A

NFPA Hazard Ratings:

Health - 1, Flammability - 1, Reactivity (Stability) - 0

Toner:

HMIS Hazard Ratings:

Health - 1, Flammability - 1, Reactivity - 0, Personal Protection - A

NFPA Hazard Ratings:

Health - 1, Flammability - 1, Reactivity (Stability) - 0

NOTE: HMIS and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. The personal protection index is only intended for general guidance on personal protection equipment (PPE) that is suitable for the potential hazards of the material. PPE (e.g., respirators) may not be needed if engineering controls (e.g., local ventilation) are adequate. An asterisk (*), in the HMIS health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: Drink 1-2 glasses of water. Seek medical attention. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide (CO₂), dry chemical

Special Fire-Fighting Procedures: Fire or excessive heat may produce hazardous decomposition products. Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products:

Developer: Carbon dioxide, carbon monoxide, oxides of iron

Toner: Carbon dioxide, carbon monoxide, oxides of nitrogen

Unusual Fire and Explosion Hazards: Powdered material may form explosive dust-air mixtures.

6. ACCIDENTAL RELEASE MEASURES

Do not use a vacuum cleaner to clean up spills of powdered developers and toners. The very fine particles can cause a fire or explosion. Sweep material onto paper and place in a fiber carton. Avoid generation of dust. Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Personal Precautionary Measures: Avoid contact with eyes and prolonged or repeated contact with skin. Avoid breathing dust. Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Powdered material may form explosive dust-air mixtures. Minimize dust generation and accumulation. Use with adequate ventilation. Keep away from sources of ignition. Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries." Keep from contact with oxidizing materials.

Storage: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV):

Carbon black: 3.5 mg/m³ TWA

Silica (amorphous): 10 mg/m³ TWA, inhalable particulate
3 mg/m³ TWA, respirable particulate

OSHA (USA) Permissible Exposure Limit (PEL - 1971 Table Z-1 Values):

Carbon black: 3.5 mg/m³ TWA

Ventilation: Good ventilation (typically 4-6 room volumes per hour) should be used. Ventilation rates should be matched to conditions.

Respiratory Protection: None should be needed.

Eye Protection: It is a good industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields (or goggles).

Skin Protection: It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Recommended Decontamination Facilities: Eye bath, safety shower, washing facilities

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Solid (powder)

Color: Black

Odor: Slight

Specific Gravity (water = 1):

Developer: 3.1

Toner: 1.48

Vapor Pressure: Negligible

Vapor Density (Air = 1): Not applicable

Evaporation Rate (n-butyl acetate = 1): Negligible

Volatile Fraction by Weight: Negligible

Melting Point: Not available

Solubility in Water: Negligible

pH: Not applicable

Flash Point: Not applicable, combustible solid

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10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility:

Developer: Strong oxidizing agents

Toner: Strong oxidizing agents

Hazardous Polymerization: Will not occur.

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11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

Inhalation: Expected to be a low hazard for recommended handling.

Eyes: No specific hazard known. May cause transient irritation.

Skin: Expected to be a low hazard for recommended handling.

Ingestion: Expected to be a low ingestion hazard.

The following information pertains to carbon black:

In 1996 the International Agency for Research on Cancer (IARC) reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen), based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black. The effects were observed only in animals exposed to high concentrations of carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than

rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

Epidemiology studies of workers in the carbon black producing industries of North America and Western Europe do not demonstrate an association between carbon black and cancer, even in high exposure occupational settings. In addition, in its reevaluation of carbon black, IARC concluded that "there is

inadequate evidence in humans for the carcinogenicity of carbon black." Chronic overexposure to many dusts, including carbon black dust, may result in respiratory tract irritation and slight changes in lung function. Collectively, the available animal data and human epidemiology studies suggest that carbon black, as contained in this product, does not present a cancer risk to the end user if the handling and personal protective

measures

contained within this Material Safety Data Sheet are understood and followed.

Mutagenicity/Genotoxicity Data:

Salmonella typhimurium assay (Ames test): Negative

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12. ECOLOGICAL INFORMATION

This material has not been tested for environmental effects. In a spill situation this material may be visually unpleasant; however, it is not expected to cause any adverse environmental effects.

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13. DISPOSAL CONSIDERATIONS

Can be incinerated when in compliance with local regulations. Contract with a licensed chemical disposal agency. Discharge, treatment, or disposal may be subject to national, state, or local laws.

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14. TRANSPORT INFORMATION

- For transportation information regarding this product call the Kodak Worldwide Transportation Hazmat Hot Line: (585) 722-2400 between 8 a.m. and 5 p.m. (Eastern Standard Time), Monday through Friday.

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15. REGULATORY INFORMATION

- Material(s) known to the State of California to cause cancer: None
- Material(s) known to the State of California to cause adverse reproductive effects: None
- Carcinogenicity Classification (components present at 0.1% or more):
 - International Agency for Research on Cancer (IARC): carbon black, Group 2B, possibly carcinogenic to humans; silica (amorphous), Group 3, not classifiable
 - American Conference of Governmental Industrial Hygienists (ACGIH): carbon black (A4): Not classifiable as a human carcinogen
 - National Toxicology Program (NTP): None
 - Occupational Safety and Health Administration (OSHA): None
- Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: None

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16. OTHER INFORMATION

US/Canadian Label Statements:

LOW HAZARD FOR RECOMMENDED HANDLING

Avoid breathing dust.
Avoid contact with eyes and prolonged or repeated contact with skin.
Use with adequate ventilation.
Wash thoroughly after handling.

FIRST AID: Treat symptomatically. Get medical attention if symptoms persist.

Keep out of reach of children

For additional information, see Material Safety Data Sheet (MSDS) for this material.

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The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal

of these materials and the safety and health of employees and customers and the protection of the environment.

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R-1, S-1, F-1, C-0

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